

EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTTTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEEEEEEEEEEEEE	DDD	TTT
EEEEEEEEEEEEEE	DDD	TTT
EEEEEEEEEEEEEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTT

```
FFFFFFFFF      IIIII
FFFFFFFFF      IIIII
FF            II
FF            II
FF            II
FF            II
FFFFFFF        II
FFFFFFF        II
FF            II
FF            II
FF            II
FF            II
FF            II
IIIIII
IIIIII
LL             LL
LL             LL
LL             LL
LL             LL
LL             LL
LL             LL
LL             LL
LL             LL
LL             LL
LLLLLLLLLLLL  LLLLLLLLLL
LLLLLLLLLLLL  LLLLLLLLLL
.....
.....
.....
.....
```

```
LL             LL
LL             LL
LL             LL
LL             LL
LL             LL
LL             LL
LL             LL
LL             LL
LL             LL
LL             LL
LL             LL
LL             LL
LLLLLLLLLLLL  LLLLLLLLLL
LLLLLLLLLLLL  LLLLLLLLLL
IIIIII
IIIIII
SSSSSSSS
SSSSSSSS
SS
SS
SS
SS
SSSSSS
SSSSSS
SS
SS
SS
SS
SSSSSSSS
SSSSSSSS
```

```
0001 0 XTITLE 'EDT$FILL - fill command'
0002 0 MODULE EDT$FILL (
0003 0 IDENT = 'V04-000'
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1 *****
0008 1 *
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0026 1 *
0027 1 *
0028 1 *****
0029 1
0030 1
0031 1 ++
0032 1 FACILITY: EDT -- The DEC Standard Editor
0033 1
0034 1 ABSTRACT:
0035 1
0036 1 This module implements the fill command for line mode
0037 1 or change mode.
0038 1
0039 1 ENVIRONMENT: user mode.
0040 1
0041 1 AUTHOR: Bob Kushlis, CREATION DATE: 11-OCT-1979
0042 1
0043 1 MODIFIED BY:
0044 1
0045 1 2-001 - Regularize headers. JBS 05-Mar-1981
0046 1 2-002 - Improve the appearance of the listing. JBS 14-Jun-1983
0047 1 --
0048 1
```

EDT\$FILL  
V04-000

EDT\$FILL - fill command  
Declarations

E 14  
16-Sep-1984 00:22:47  
14-Sep-1984 12:23:06

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[EDT.SRC]FILL.BLI;1

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```
: 50      0049 1 %SBTTL 'Declarations'
: 51      0050 1
: 52      0051 1 | TABLE OF CONTENTS:
: 53      0052 1 |
: 54      0053 1
: 55      0054 1 REQUIRE 'EDTSRC:TRAROUNAM';
: 56      0493 1
: 57      0494 1 FORWARD ROUTINE
: 58      0495 1     EDT$FILL_TXT;
: 59      0496 1
: 60      0497 1 |
: 61      0498 1 | INCLUDE FILES:
: 62      0499 1 |
: 63      0500 1
: 64      0501 1 REQUIRE 'EDTSRC:EDTREQ';
: 65      0636 1
: 66      0637 1 |
: 67      0638 1 | MACROS:
: 68      0639 1 |
: 69      0640 1 |     NONE
: 70      0641 1 |
: 71      0642 1 | EQUATED SYMBOLS:
: 72      0643 1 |
: 73      0644 1 |     NONE
: 74      0645 1 |
: 75      0646 1 | OWN STORAGE:
: 76      0647 1 |
: 77      0648 1 |     NONE
: 78      0649 1 |
: 79      0650 1 | EXTERNAL REFERENCES:
: 80      0651 1 |
: 81      0652 1 |     In the routine
```

ED  
VO

```

83 0653 1 XSBTTL 'EDT$$FILL_TXT - fill command'
84 0654 1
85 0655 1 GLOBAL ROUTINE EDT$$FILL_TXT (      ! Fill command
86 0656 1     NLINES                          ! Number of lines to process
87 0657 1     ) =
88 0658 1
89 0659 1 ++
90 0660 1 FUNCTIONAL DESCRIPTION:
91 0661 1
92 0662 1     Do filling, in both line and change mode.
93 0663 1
94 0664 1 FORMAL PARAMETERS:
95 0665 1
96 0666 1     NLINES                The number of lines to fill
97 0667 1
98 0668 1 IMPLICIT INPUTS:
99 0669 1
100 0670 1     EDT$$G_WD_WRAP
101 0671 1     EDT$$G_TI_WID
102 0672 1     EDT$$T_LN_BUF
103 0673 1     EDT$$G_LN_LEN
104 0674 1     EDT$$A_WK_LN
105 0675 1
106 0676 1 IMPLICIT OUTPUTS:
107 0677 1
108 0678 1     NONE
109 0679 1
110 0680 1 ROUTINE VALUE:
111 0681 1
112 0682 1     The number of lines filled.
113 0683 1
114 0684 1 SIDE EFFECTS:
115 0685 1
116 0686 1     NONE
117 0687 1
118 0688 1 --
119 0689 1
120 0690 2 BEGIN
121 0691 2
122 0692 2 EXTERNAL ROUTINE
123 0693 2     EDT$$FMT_CHWID,
124 0694 2     EDT$$DEL_CURLN,
125 0695 2     EDT$$INS_LN,
126 0696 2     EDT$$START_INS,
127 0697 2     EDT$$END_INS,
128 0698 2     EDT$$RD_NXTLN;
129 0699 2
130 0700 2 EXTERNAL
131 0701 2     EDT$$G_WD_WRAP,
132 0702 2     EDT$$G_TI_WID,
133 0703 2     EDT$$T_LN_BUF,
134 0704 2     EDT$$G_LN_LEN,
135 0705 2     EDT$$A_WK_LN : REF LIN_BLOCK;
136 0706 2
137 0707 2 LABEL
138 0708 2     PUTLINE;
139 0709 2
```

```

140 0710 2 LOCAL
141 0711 2 MARGIN,
142 0712 2 COL,
143 0713 2 I,
144 0714 2 LC,
145 0715 2 LP,
146 0716 2 SP,
147 0717 2 REM,
148 0718 2 LEN,
149 0719 2 NL;
150 0720
151 0721 2 +
152 0722 2 Determine the margin.
153 0723 2 -
154 0724 2
155 0725 2 IF (.EDT$$G_WD_WRAP NEQ 256) THEN MARGIN = .EDT$$G_WD_WRAP ELSE MARGIN = .EDT$$G_TI_WID - 1;
156 0726 2
157 0727 2 +
158 0728 2 Set the filled line buffer to empty,
159 0729 2 The column number to 0,
160 0730 2 And the count of lines processed to 0.
161 0731 2 -
162 0732 2 LP = CH$PTR (EDT$$T_LN_BUF);
163 0733 2 LC = 0;
164 0734 2 COL = 0;
165 0735 2 I = .EDT$$A_WK_LN [LIN_LENGTH];
166 0736 2 NL = 0;
167 0737 2 +
168 0738 2 Loop until NLINES have been processed.
169 0739 2 -
170 0740 2
171 0741 2 INCR J FROM 1 TO .NLINES DO
172 0742 2 BEGIN
173 0743 2 +
174 0744 2 Strip trailing blanks and tabs
175 0745 2 -
176 0746 2 LEN = .EDT$$A_WK_LN [LIN_LENGTH];
177 0747 2 SP = CH$PTR (EDT$$A_WK_LN [LIN_TEXT], .LEN);
178 0748 2
179 0749 2 WHILE CH$PTR_GTR (.SP, EDT$$A_WK_LN [LIN_TEXT]) DO
180 0750 2 BEGIN
181 0751 2 SP = CH$PLUS (.SP, -1);
182 0752 2
183 0753 2 IF ((CH$RCHAR (.SP) NEQ %C' ') AND (CH$RCHAR (.SP) NEQ ASC_K_TAB)) THEN EXITLOOP;
184 0754 2
185 0755 2 LEN = .LEN - 1;
186 0756 2 END;
187 0757 2
188 0758 2 IF (.LEN NEQ 0)
189 0759 2 THEN
190 0760 2 BEGIN
191 0761 2
192 0762 2 INCR I FROM 0 TO .LEN DO
193 0763 2 BEGIN
194 0764 2
195 0765 2 IF (.I EQL .LEN)
196 0766 2 THEN
```

```

! The column number of the right margin.
! Current column of filled line buffer.
! Index into the input line.
! Count of lines processed.
! Pointer into filled line buffer.
! Pointer used when scanning back for spaces.
! No of characters remaining after fill line.
! Length of input line.
! No of new lines created.
```

EDTSFILL  
V04-000

EDTSFILL - fill command  
EDTSSFILL\_TXT - fill command

H 14  
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DISK\$VMSMASTER:[EDT.SRC]FILL.BLI;1

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```
197 0767 5 CH$WCHAR (XC' ', .LP)
198 0768 5 ELSE
199 0769 5 CH$WCHAR (CH$RCHAR (CH$PTR (EDT$SA_WK_LN [LIN_TEXT], .I)), .LP);
200 0770 5
201 0771 5 COL = .COL + EDT$FMT_CHWID (CH$RCHAR_A (LP), .COL);
202 0772 5
203 0773 6 IF (.COL GTR .MARGIN)
204 0774 5 THEN
205 0775 5 PUTLINE :
206 0776 6 BEGIN
207 0777 6 !+
208 0778 6 !- Back up to a space.
209 0779 6 !-
210 0780 6 SP = CH$PLUS (.LP, -1);
211 0781 6
212 0782 6 WHILE (CH$RCHAR (.SP) NEQ XC' ') DO
213 0783 6
214 0784 7 IF CH$PTR_EQL (.SP, CH$PTR (EDT$ST_LN_BUF))
215 0785 6 THEN
216 0786 6 LEAVE PUTLINE
217 0787 6 ELSE
218 0788 6 SP = CH$PLUS (.SP, -1);
219 0789 6
220 0790 6 !+
221 0791 6 !- Insert the new line.
222 0792 6 !-
223 0793 6 EDT$START_INS ();
224 0794 6 EDT$INS_LN (CH$PTR (EDT$ST_LN_BUF), CH$DIFF (.SP, CH$PTR (EDT$ST_LN_BUF)));
225 0795 6 EDT$END_INS ();
226 0796 6 NL = .NL + 1;
227 0797 6 !+
228 0798 6 !- And move the remaining characters to the beginning
229 0799 6 !- of the buffer.
230 0800 6
231 0801 6 SP = CH$PLUS (.SP, 1);
232 0802 6 EDT$COPY_MEM (CH$DIFF (.LP, .SP), .SP, CH$PTR (EDT$ST_LN_BUF));
233 0803 6 COL = 0;
234 0804 6 REM = CH$DIFF (.LP, .SP);
235 0805 6 LP = CH$PTR (EDT$ST_LN_BUF);
236 0806 6
237 0807 6 DECR I FROM .REM - 1 TO 0 DO
238 0808 6 COL = .COL + EDT$FMT_CHWID (CH$RCHAR_A (LP), .COL);
239 0809 6
240 0810 5 END;
241 0811 5
242 0812 4 END;
243 0813 4
244 0814 4 EDT$DEL_CURLN ();
245 0815 4 END
246 0816 3 ELSE
247 0817 3 !+
248 0818 3 !- Line was blank, break the fill at this point by inserting
249 0819 3 !- whatever remains from the previous line.
250 0820 3 !-
251 0821 4 BEGIN
252 0822 4 !+
253 0823 4 !- Insert the remainder of new line.
```

```
! of routine EDTSSFILL_TXT
```

Address	Instruction	Hex
0000	EDT\$\$FILL TXT, Save R2,R3,R4,R5,R6,R7,R8,-	0655
0004	R9,R10,R11	
0008	SUBL2 #16, SP	
000C	MOVL EDT\$\$G_WD_WRAP, R0	0725
0010	CMPL R0, #256	
0014	BEQL 1\$	
0018	MOVL R0, MARGIN	
001C	BRB 2\$	
0020	SUBL3 #1, EDT\$\$G_TI_WID, MARGIN	
0024	MOVAB EDT\$\$T_LN_BUF, LP	0732
0028	LC	0733
002C	MOVL EDT\$\$A_WK_LN, R0	0735
0030	MOVZBL (R0), I	

		OFFC 00000	
	5E	10	C2 00002
00000100	50 00000000G	00	D0 00005
	8F	50	D1 0000C
		05	13 00013
	6E	50	D0 00015
		08	11 00018
6E 00000000G	00	01	C3 0001A 1\$:
	56 00000000G	00	9E 00022 2\$:
		50	D4 00029
	50 00000000G	00	D0 0002B
	50	60	9A 00032

	0C	AE	D4	00035	CLRL	NL	0736			
	04	AE	7C	00038	CLRQ	COL	0734			
		012E	31	0003B	BRW	18\$	0741			
50	00000000G	00	D0	0003E	3\$:	MOVL	EDTSSA_WK_LN, R0	0746		
5A		60	9A	00045	MOVZBL	(R0), [LEN-				
58		07	AA40	9E	00048	MOVAB	7(LEN)[R0], SP	0747		
51		07	A0	9E	0004D	4\$:	MOVAB	7(R0), R1	0749	
51			58	D1	00051	CMPL	SP, R1			
			0E	1B	00054	BLEQU	6\$			
20			78	91	00056	CMPB	-(SP), #32	0753		
			05	13	00059	BEQL	5\$			
09			68	91	0005B	CMPB	(SP), #9			
			04	12	0005E	BNEQ	6\$			
			5A	D7	00060	5\$:	DECL	LEN	0755	
			E9	11	00062	BRB	4\$	0749		
			5A	D5	00064	6\$:	TSTL	LEN	0758	
			03	12	00066	BNEQ	7\$			
			00B8	31	00068	BRW	16\$			
5B			01	CE	0006B	7\$:	MNEGL	#1, I	0773	
			00A3	31	0006E	BRW	15\$			
5A			5B	D1	00071	8\$:	CMPL	I, LEN	0765	
			05	12	00074	BNEQ	9\$			
66			20	90	00076	MOVB	#32, (LP)	0767		
			0C	11	00079	BRB	10\$	0769		
50	00000000G	00	D0	0007B	9\$:	MOVL	EDTSSA_WK_LN, R0			
66		07	AB40	90	00082	MOVB	7(I)[R0], -(LP)			
		04	AE	DD	00087	10\$:	PUSHL	COL	0771	
			86	9A	0008A	MOVZBL	(LP)+, -(SP)			
00000000G			02	FB	0008D	CALLS	#2, EDTSSFMT_CHWID			
04			50	C0	00094	ADDL2	R0, COL			
AE			D1	00098	CMPL	COL, MARGIN		0773		
6E		04	AE	D1	00098	CMPL	COL, MARGIN			
			76	15	0009C	BLEQ	15\$			
58		FF	A6	9E	0009E	MOVAB	-1(R6), SP	0780		
20			68	91	000A2	11\$:	CMPB	(SP), #32	0782	
			10	13	000A5	BEQL	12\$			
50	00000000G	00	9E	000A7	MOVAB	EDT\$ST_LN_BUF, R0		0784		
50			58	D1	000AE	CMPL	SP, R0			
			61	13	000B1	BEQL	15\$			
			58	D7	000B3	DECL	SP	0788		
			EB	11	000B5	BRB	11\$	0784		
00000000G		00	00	FB	000B7	12\$:	CALLS	#0, EDT\$START_INS	0793	
		50	00000000G	00	9E	000BE	MOVAB	EDT\$ST_LN_BUF, R0	0794	
7E		58		50	C3	000C5	SUBL3	R0, SP, -(SP)		
			00000000G	00	9F	000C9	PUSHAB	EDT\$ST_LN_BUF		
			00000000G	00	02	FB	000CF	CALLS	#2, EDT\$INS_LN	
			00000000G	00	00	FB	000D6	CALLS	#0, EDT\$END_INS	0795
			0C	AE	D6	000DD	INCL	NL	0796	
			58	D6	000E0	INCL	SP		0801	
00000000G	59		56	58	C3	000E2	SUBL3	SP, LP, R9	0802	
00			68	59	28	000E6	MOVC3	R9, (SP), EDT\$ST_LN_BUF		
				04	AE	D4	000EE	CLRL	COL	0803
			57	59	D0	000F1	MOVL	R9, REM	0804	
			56	00000000G	00	9E	000F4	MOVAB	EDT\$ST_LN_BUF, LP	0805
			52	57	D0	000FB	MOVL	REM, I	0807	
				11	11	000FE	BRB	14\$		
			04	AE	DD	00100	13\$:	PUSHL	COL	0808
			7E	86	9A	00103	MOVZBL	(LP)+, -(SP)		

EDTSFILL  
V04-000

EDTSFILL - fill command  
EDTSSFILL\_TXT - fill command

K 14  
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FF57	5B	00000000G	00	02	FB	00106	CALLS	#2, EDT\$FMT_CHWID	
		04	AE	50	C0	0010D	ADDL2	R0, COL	
			EC	52	F4	00111	SOBGEQ	I, 13\$	
			01	5A	F1	00114	14\$: ACBL	LEN, #1, I, 8\$	0762
		00000000G	00	00	FB	0011A	15\$: CALLS	#0, EDT\$DEL_CURLN	0814
				49	11	00121	BRB	18\$	0758
			50	00	9E	00123	16\$: MOVAB	EDT\$ST_LN_BUF, R0	0826
			50	56	D1	0012A	CMPL	LP, R0	
				33	13	0012D	BEQL	17\$	
		00000000G	00	00	FB	0012F	CALLS	#0, EDT\$START_INS	0829
			50	00	9E	00136	MOVAB	EDT\$ST_LN_BUF, R0	0830
	7E		56	50	C3	0013D	SUBL3	R0, LP, -TSP)	
				00	9F	00141	PUSHAB	EDT\$ST_LN_BUF	
		00000000G	00	02	FB	00147	CALLS	#2, EDT\$INS_LN	
		00000000G	00	00	FB	0014E	CALLS	#0, EDT\$END_INS	0831
				0C	AE	D6	INCL	NL	0832
			56	00	9E	00158	MOVAB	EDT\$ST_LN_BUF, LP	0833
			04	AE	D4	0015F	CLRL	COL	0834
		00000000G	00	00	FB	00162	17\$: CALLS	#0, EDT\$RD_NXTLN	0837
				0C	AE	D6	INCL	NL	0838
FECA	08	AE	01	04	AC	F1	18\$: ACBL	NLINES, #1, J, 3\$	0758
			50	00	9E	00174	MOVAB	EDT\$ST_LN_BUF, R0	0843
			50	56	D1	0017B	CMPL	LP, R0	
				29	13	0017E	BEQL	19\$	
		00000000G	00	00	FB	00180	CALLS	#0, EDT\$START_INS	0846
			50	00	9E	00187	MOVAB	EDT\$ST_LN_BUF, R0	0847
	7E		56	50	C3	0018E	SUBL3	R0, LP, -TSP)	
				00	9F	00192	PUSHAB	EDT\$ST_LN_BUF	
		00000000G	00	02	FB	00198	CALLS	#2, EDT\$INS_LN	
		00000000G	00	00	FB	0019F	CALLS	#0, EDT\$END_INS	0848
				0C	AE	D6	INCL	NL	0849
			50	0C	AE	D0	19\$: MOVL	NL, R0	0852
					04	001AD	RET		0853

; Routine Size: 430 bytes, Routine Base: \_EDT\$CODE + 0000

; 284 0854 1  
; 285 0855 1 !<BLF/PAGE>

EDT\$FILL  
V04-000

EDT\$FILL - fill command  
EDT\$FILL\_TXT - fill command

L 14  
16-Sep-1984 00:22:47  
14-Sep-1984 12:23:06

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DISK\$VMSMASTER:[EDT.SRC]FILL.BLI;1

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: 287 0856 1 END  
: 288 0857 1  
: 289 0858 0 ELUDOM

! of module EDT\$FILL

# PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	430	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

# Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	12	3	40	00:00.2
_\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1	50	7	00:00.1

# COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:FILL/OBJ=OBJ\$:FILL MSRC\$:FILL.BLI/UPDATE=(ENHS\$:FILL)

: Size: 430 code + 0 data bytes  
: Run Time: 00:22.0  
: Elapsed Time: 00:26.2  
: Lines/CPU Min: 2338  
: Lexemes/CPU-Min: 8314  
: Memory Used: 139 pages  
: Compilation Complete

0133 AH-BT13A-SE  
VAX/VMS V4.0

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EXECNOO  
LIS

FILEIO  
LIS

EDTVECTOR  
LIS

FINDKEY  
LIS

FCOLINC  
LIS

FINAL  
LIS

FINDHDLR  
LIS

DEFKEY  
LIS

ERRMSG  
LIS

FCVAR  
LIS